

What is claimed is:

1. A process, comprising
 - a) mixing particles with a curable composition; and
 - b) curing said curable composition, prior to the particles substantially swelling, to form said thermoformable sheet.
2. The process of claim 1 wherein said particles comprise a polyacrylate polymer.
3. The process of any one of claims 1-2 wherein said curable composition comprises an unsaturated material whereupon contact with said particles causes the particles to swell.
4. The process of any one of claims 1-3 wherein said thermoformable sheet comprises said particles that have a Young's modulus higher than the Young's modulus of said cured composition.
5. The process of any one of claims 1-4 wherein said thermoformable sheet forms a textured surface upon thermoforming.
6. The process of any one of claims 1-5 wherein said thermoformable sheet has a top surface that is substantially opposite a bottom surface, wherein said top surface does not contact the mold during thermoforming, and said top surface of the thermoformable sheet has a higher gloss than the gloss of said top surface after thermoforming.
7. The process of any one of claims 1-6 wherein said thermoformable sheet has a top surface that is substantially opposite a bottom surface, wherein greater than 50% of the particles are present in an area defined by said top surface and a parallel plane equidistant from said top surface and said bottom surface.
8. The process of any one of claims 1-7 wherein said thermoformable sheet has a top surface that is substantially opposite a bottom surface, wherein greater than 95% of the particles are present in an area defined by said top surface and a

parallel plane positioned between said top surface and said bottom surface at a distance that is five times closer to said bottom surface than said top surface.

9. The process of any one of claims 1-8 wherein at least 80% of said particles have a Young's modulus greater than 400,000 Psi.
10. The process of any one of claims 1-9 wherein said particles have an average diameter of between 150°m and 590°m.
11. The process of any one of claims 1-10 wherein the thermoformable sheet comprises between 0.1-5 wt% particles.
12. The process of any one of claims 1-11 wherein said particles are dispersed in a carrier prior to mixing.
13. The process of any one of claims 1-12 wherein said curing is initiated within 5 minutes of said mixing.
14. A thermoformable acrylic sheet having a top surface and an opposing bottom surface comprising:
 - a) particles; and
 - b) an acrylic matrix,wherein greater than 50% of said particles are present in an area defined by said top surface and a parallel plane substantially equidistant from said top and bottom surfaces.
15. The sheet of claim 14 wherein greater than 95% of the particles are present in an area defined by said top surface and a parallel plane positioned between said top surface and said bottom surface at a distance that is five times closer to said bottom surface than said top surface.
16. The sheet of any one of claims 14-15 wherein at least 80% of said particles are substantially un-swollen.

17. The sheet of any one of claims 14-16 wherein said particles have an average diameter of between 150°m and 590°m.
18. An article formed from the sheet according to any one of claims 14-17 wherein said top surface comprises between 2-40 protrusions per square centimeter.
19. The article of claim 18 wherein said top surface comprises protrusions that extend between 0.8 to 0.14mm above the surface on average.
20. The article of any one of claims 18-19 wherein said top surface comprises protrusions that have an average diameter of between 0.8 to 1.2 mm.